EECS 1012. LAB 01: Lab Environment, pre-lab quiz, attendance, submissions

A. IMPORTANT REMINDERS

1) You must attend your own lab session (the one you are enrolled in). If you need to change your lab enrollment, you should go to the department. Instructors or TAs cannot change your enrollment.
2) You are required to arrive on time: anyone later than 15 minutes may not be admitted to the lab.
3) You are required to complete the pre-lab mini quiz posted on Moodle in the first 15 minutes of your lab time.

   Hint: pre-lab quiz 1 may have questions from the <u>course outline/syllabus</u>, <u>academic honesty slides</u>, and <u>Intro slides</u> among <u>other questions</u>.

4) Each lab including the pre-lab mini quiz is about 1.5% of your overall grade.
5) TAs are in the lab to help you. They will also verify and mark your work at the end. Signal a TA for help if you stuck on any of the steps below. Yet, note that TAs would need to help other students too.

B. IMPORTANT PRE-LAB WORKS YOU NEED TO DO BEFORE GOING TO THE LAB

1) Find your assigned lab: the one you are officially enrolled in.
2) Download this lab files and read them to the end.
3) Read the course outline and syllabus, here:
   https://www.eecs.yorku.ca/course_archive/2019-20/W/1012/
4) Read the academic honesty slides available in moodle.
5) Read the Intro Slides; make sure you also click on every links to resources on internet and go over some basic/first steps.

C. GOALS/OUTCOMES FOR LAB

1) To get you familiar with the lab environment that uses Linux,
2) To get you familiar with a code editor, in this case Visual Studio Code (aka VSCode),
3) To get you familiar with writing a simple HTML document from scratch,
4) To get you familiar with your TA, lab attendance and your work evaluation,
5) To get you familiar with submitting your lab results through moodle,
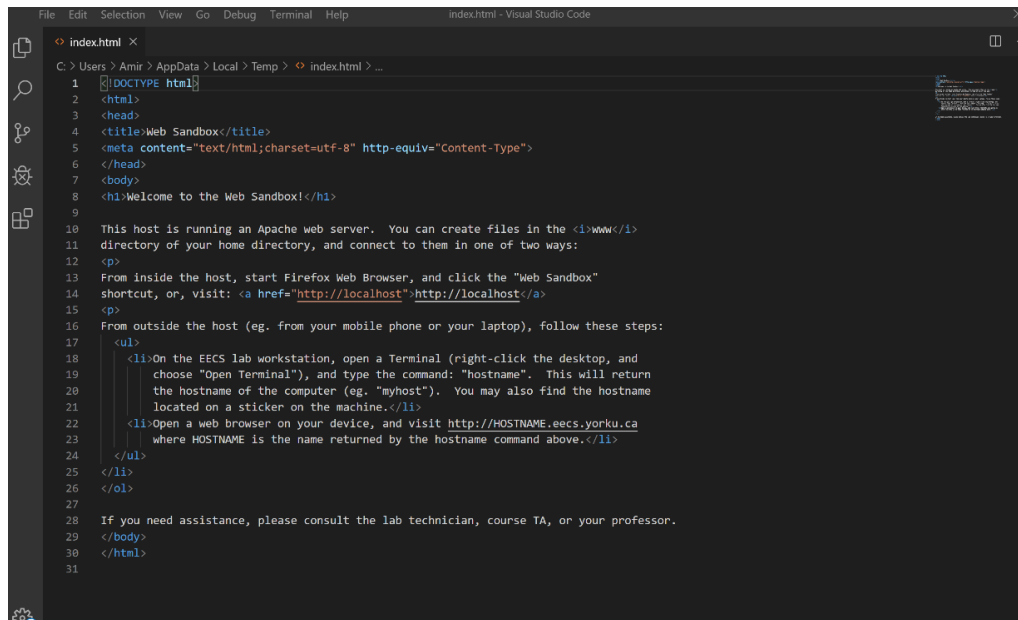
D. TASKS

Part 1: Using the lab's computer

1) Start the lab machine. The lab is running a fully functional Apache Web Server

   Details: for Username, type **user** and hit the Enter key. A password is not required. It may take several seconds until you are signed in.

2) Launch Firefox (this will automatically render the `eecs.lassonde.yorku.ca` webpage),

   a) click on this icon:

      If the icon is not on the current screen, click on Activities on the top left corner of the screen.

   b) After exploring the `eecs` webpage a bit, click on the shortcut "Web Sandbox". You should see a page starting with "Welcome to the Web Sandbox!".
   c) Close Firefox.

Part 2: Manipulating a file using VS Code

   a) Open your `Home` directory, by double clicking on this icon:

      If the icon is not on the current screen, click almost anywhere on the screen.

b) Scroll down until you see the `www` directory, double click on it.
c) Now, right click on `index.html`, and click on Open With Other Application. If you do not see ⬦ Visual Studio Code among recommended applications, click on View All Applications, and scroll down until you see it, then double click on it. VS Code may (or may not) have your web browser to automatically open the Visual Studio webpage. If it does, just close the web browser. What you now see should look like this:

Is the content of this file familiar to you? IF your answer is negative, do Part 1 (above) again.

d) Now, go to line 8 and change it to this: `<h1>Hello World! Welcome to the Web Sandbox! My name is MYNAME!</h1>`
You should replace MYNAME with your actual first and last name.
To save these changes to the file, press ctrl+s, or click on File (near top left) and then on Save.

Part 3: revisiting the Web Sandbox shortcut

Launch Firefox again, and then click on the shortcut for Web Sandbox. (If you do not know how, read Step 2 of Part 1 again.) Do you see your first and last name in what this time Firefox renders!? If not, do Part 2 again.

Part 4: creating an HTML document named `myFirst.html` in the WWW directory.

1) Use the VSCode editor (it's under applications)
   Hint: if you do not know how to find VS Code, you may want to click on Activities, and then click on the icon for Show Applications ⬚ , then click on Development, and scroll down until you find it.

   Another way to run VS code, is just to type `code` in a terminal.

2) In VSCode, open folder home/www; then make a new file and save it as `myFirst.html`
   Now type the following lines of codes in your `myFirst.html` file, and replace … with appropriate code:

```
<!DOCTYPE html>
<html>
    <head>
        <title> John first page</title>
    </head>
    <body>
        <h1> Welcome to my first website</h1>
        <h2> my name is yourname</h2>
            …
    </body>
</html>
```

3) You can view the result in Firefox at the URL: `localhost/myFirst.html`. Its structure should look like the following figure. Make sure **a)** you replace the name with your own name, **b)** replace the hobbies with at least 4 of your own hobbies, and **c)** replace the favourite places/images, with at least 4 of either your favourite foods, or favourite drinks, or favourite arts, or favourite cars, or favourite hair styles, etc. The width and height of the images should be the same.

Hint: you need the following html tags: <h1>, <h2>, <p>, <strong>, <u>, <hr>, <ul> or <ol>, <li>, and <img>

Welcome to my first website

My name is John Smith

I know EECS1012 is a challenging course, and I need to **engage** really well in problem solving activities from first week of classes for every week.

I have been told that if I treat 1012, 1022, 2030, and 2011 each as a 6-credit course, and really learn the underlying concepts and skills, I will enjoy rest of my CS program. In fact <u>rest of my life! as long as I am in the CS business</u>.

BTW, these are my hobbies:

- strategic board games
- volleyball
- sudoku and kakuro

And, these are images of my favourite places to visit:

Part 5: Verifying your work and submitting it to moodle

For details of this part, please see SUBMISSIONS section below before proceeding to Part 6.

Part 6: Important surprise or warning, depends how you see it

a) Double click on the Logout icon on the main screen of your computer (it's normally on the left side and in colour green); then, confirm to log out.

b) Now, log in again, launch the web browser, and click on the Web Sandbox shortcut. (if you do not know how, see Part 1 above).

What did you notice?

The changes that you made in the `index.html` and `myFirst.html` files are all gone. You are lucky that you have already showed your Lab01 work to a TA and have submitted it to moodle. In general, any file and changes that you save in this environment will disappear as soon as you are logged out or the computer is turned off.

==Never log out or turn off your computer before showing your lab work to the TA and submitting it to moodle.==

E. SUBMISSIONS

1) Manual verification by a TA

You will need to have one of the TAs of your lab to verify your work before submission. The TA will mark your name off a list and ask you to sign that you have been verified.

2) Moodle submission

You will see an assignment submission link on Moodle. Create a folder named "Lab01" with all your lab materials (for this lab, it's `index.html` and `myFirst.html` file, plus any local image you have in Lab01) inside. This folder should be compressed (or tar.gz) and the compressed file submitted.

If you fail in any of the two steps above, you will receive a 0 for this lab.

F. AFTER-LAB WORKS

1) To learn more about sandboxing in computer science, start from here:

   https://en.wikipedia.org/wiki/Sandbox_(software_development)

   make sure you click on Sandbox (Computer Security) too.

2) Study each of the element tags that you used in this lab via https://www.w3schools.com/